

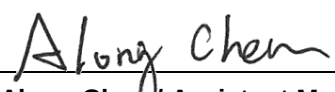
# FCC Test Report

**FCC ID** : 2AAS9-TBMH110  
**Equipment** : MiniHub Pro  
**Model No.** : TBMH110  
**Applicant** : Browan Communications Inc.  
**Address** : No. 15-1 Zhonghua Road, Hsinchu Industrial  
Park, Hukou, Hsinchu, Taiwan (R.O.C.), 30352.  
**Standard** : 47 CFR FCC Part 15.247  
**Received Date** : Jul. 07, 2020  
**Tested Date** : Jul. 13 ~ Jul. 17, 2020

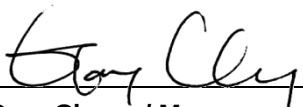
We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

Reviewed by:

  
Along Chen / Assistant Manager

Approved by:

  
Gary Chang / Manager



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## Release Record

| Report No. | Version | Description   | Issued Date   |
|------------|---------|---------------|---------------|
| FR070702   | Rev. 01 | Initial issue | Aug. 03, 2020 |

## Summary of Test Results

| FCC Rules           | Test Items             | Measured                                                | Result |
|---------------------|------------------------|---------------------------------------------------------|--------|
| 15.207              | Conducted Emissions    | [dBuV]: 0.690MHz<br>54.86 (Margin -1.14dB) - QP         | Pass   |
| 15.247(d)<br>15.209 | Radiated Emissions     | [dBuV/m at 3m]: 46.32MHz<br>34.39 (Margin -5.61dB) - PK | Pass   |
| 15.247(b)(3)        | Maximum Output Power   | Max Power [dBm]: 26.25                                  | Pass   |
| 15.247(a)(2)        | 6dB Bandwidth          | Meet the requirement of limit                           | Pass   |
| 15.247(e)           | Power Spectral Density | Meet the requirement of limit                           | Pass   |
| 15.203              | Antenna Requirement    | Meet the requirement of limit                           | Pass   |

### Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

### Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

# 1 General Description

## 1.1 Information

### 1.1.1 Specification of the Equipment under Test (EUT)

| RF General Information                                                           |                 |                |                     |               |                         |
|----------------------------------------------------------------------------------|-----------------|----------------|---------------------|---------------|-------------------------|
| Frequency Range (MHz)                                                            | Ch. Freq. (MHz) | Channel Number | Data Rate (bit/sec) | Spread Factor | Channel Bandwidth (kHz) |
| 902 ~ 928                                                                        | 923.3 ~ 927.5   | 1 ~ 8 [8]      | 980 ~ 21900         | 12 ~ 7        | 500                     |
| Note 1: RF output power specifies that Maximum Conducted (Average) Output Power. |                 |                |                     |               |                         |
| Note 2: The device uses Lora modulation.                                         |                 |                |                     |               |                         |

### 1.1.2 Antenna Details

| Ant. No. | Type | Connector | Gain (dBi) |
|----------|------|-----------|------------|
| 1        | PIFA | IPEX      | 0          |

### 1.1.3 Power Supply Type of Equipment under Test (EUT)

|                   |            |
|-------------------|------------|
| Power Supply Type | 100-240Vac |
|-------------------|------------|

### 1.1.4 Accessories

N/A

### 1.1.5 Channel List

| Channel | Frequency(MHz) |
|---------|----------------|
| 1       | 923.3          |
| 2       | 923.9          |
| 3       | 924.5          |
| 4       | 925.1          |
| 5       | 925.7          |
| 6       | 926.3          |
| 7       | 926.9          |
| 8       | 927.5          |

### 1.1.6 Test Tool and Duty Cycle

|                            |                          |                  |
|----------------------------|--------------------------|------------------|
| Test Tool                  | Putty, version: 0.60.0.0 |                  |
| Duty Cycle and Duty Factor | Duty Cycle (%)           | Duty Factor (dB) |
|                            | 100%                     | 0                |

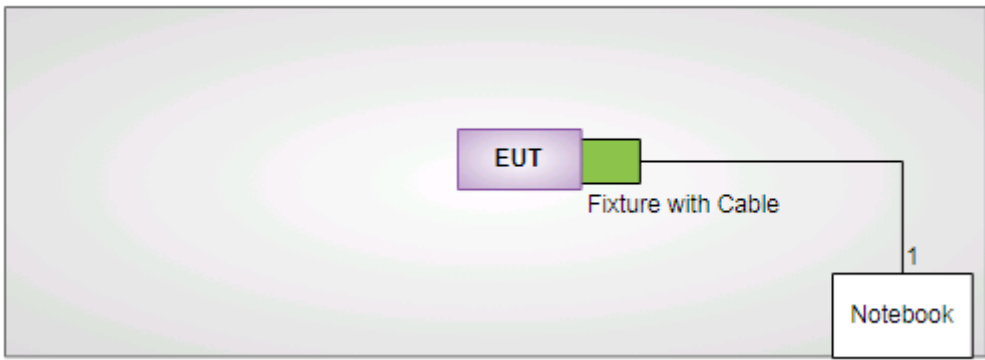
### 1.1.7 Power Index of Test Tool

| Modulation Mode | Test Frequency (MHz) |       |
|-----------------|----------------------|-------|
|                 | 923.3                | 927.5 |
| Lora            | 26                   | 26    |

## 1.2 Local Support Equipment List

| Support Equipment List |                    |       |                |         |                        |
|------------------------|--------------------|-------|----------------|---------|------------------------|
| No.                    | Equipment          | Brand | Model          | FCC ID  | Remarks                |
| 1                      | Notebook           | DELL  | Latitude E5470 | 3J5JVF2 | ---                    |
| 2                      | Fixture with Cable | ---   | ---            | ---     | Provided by applicant. |

## 1.3 Test Setup Chart

| Test Setup Diagram                                                                  |                           |
|-------------------------------------------------------------------------------------|---------------------------|
|  |                           |
| No.                                                                                 | Signal cable / Length (m) |
| 1                                                                                   | USB, 1m shielded.         |

## 1.4 The Equipment List

|                                                                     |                               |                  |                   |                         |                          |
|---------------------------------------------------------------------|-------------------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | Conducted Emission            |                  |                   |                         |                          |
| <b>Test Site</b>                                                    | Conduction room 1 / (CO01-WS) |                  |                   |                         |                          |
| <b>Tested Date</b>                                                  | Jul. 17, 2020                 |                  |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Manufacturer</b>           | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Receiver                                                            | R&S                           | ESR3             | 101658            | Dec. 12, 2019           | Dec. 11, 2020            |
| LISN                                                                | R&S                           | ENV216           | 101579            | Mar. 12, 2020           | Mar. 11, 2021            |
| LISN<br>(Support Unit)                                              | SCHWARZBECK                   | Schwarzbeck 8127 | 8127-666          | Dec. 20, 2019           | Dec. 19, 2020            |
| RF Cable-CON                                                        | Woken                         | CFD200-NL        | CFD200-NL-001     | Oct. 22, 2019           | Oct. 21, 2020            |
| 50 ohm terminal<br>(Support Unit)                                   | NA                            | 50               | 04                | Jun. 05, 2020           | Jun. 04, 2021            |
| Measurement<br>Software                                             | AUDIX                         | e3               | 6.120210k         | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                               |                  |                   |                         |                          |

|                                                                     |                            |                          |                   |                         |                          |
|---------------------------------------------------------------------|----------------------------|--------------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | Radiated Emission          |                          |                   |                         |                          |
| <b>Test Site</b>                                                    | 966 chamber1 / (03CH01-WS) |                          |                   |                         |                          |
| <b>Tested Date</b>                                                  | Jul. 13, 2020              |                          |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Manufacturer</b>        | <b>Model No.</b>         | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Spectrum Analyzer                                                   | R&S                        | FSV40                    | 101498            | Dec. 17, 2019           | Dec. 16, 2020            |
| Receiver                                                            | R&S                        | ESR3                     | 101657            | Feb. 14, 2020           | Feb. 13, 2021            |
| Bilog Antenna                                                       | SCHWARZBECK                | VULB9168                 | VULB9168-522      | Jul. 10, 2020           | Jul. 09, 2021            |
| Horn Antenna<br>1G-18G                                              | SCHWARZBECK                | BBHA 9120 D              | BBHA 9120 D 1096  | Dec. 12, 2019           | Dec. 11, 2020            |
| Horn Antenna<br>18G-40G                                             | SCHWARZBECK                | BBHA 9170                | BBHA 9170517      | Nov. 15, 2019           | Nov. 14, 2020            |
| Loop Antenna                                                        | R&S                        | HFH2-Z2                  | 100330            | Nov. 13, 2019           | Nov. 12, 2020            |
| Loop Antenna Cable                                                  | KOAX KABEL                 | 101354-BW                | 101354-BW         | Oct. 07, 2019           | Oct. 06, 2020            |
| Preamplifier                                                        | EMC                        | EMC02325                 | 980225            | Jul. 03, 2020           | Jul. 02, 2021            |
| Preamplifier                                                        | Agilent                    | 83017A                   | MY39501308        | Oct. 08, 2019           | Oct. 07, 2020            |
| Preamplifier                                                        | EMC                        | EMC184045B               | 980192            | Aug. 01, 2019           | Jul. 31, 2020            |
| RF Cable                                                            | EMC                        | EMC104-SM-SM-80<br>00    | 181106            | Oct. 07, 2019           | Oct. 06, 2020            |
| RF Cable                                                            | HUBER+SUHNER               | SUCOFLEX104              | MY16019/4         | Oct. 07, 2019           | Oct. 06, 2020            |
| RF Cable                                                            | HUBER+SUHNER               | SUCOFLEX104              | MY16014/4         | Oct. 07, 2019           | Oct. 06, 2020            |
| LF cable 1M                                                         | EMC                        | EMCCFD400-NM-N<br>M-1000 | 160502            | Oct. 07, 2019           | Oct. 06, 2020            |
| LF cable 3M                                                         | Woken                      | CFD400NL-LW              | CFD400NL-001      | Oct. 07, 2019           | Oct. 06, 2020            |
| LF cable 10M                                                        | Woken                      | CFD400NL-LW              | CFD400NL-002      | Oct. 07, 2019           | Oct. 06, 2020            |
| Measurement<br>Software                                             | AUDIX                      | e3                       | 6.120210g         | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                            |                          |                   |                         |                          |



|                                                                     |                     |                  |                   |                         |                          |
|---------------------------------------------------------------------|---------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | RF Conducted        |                  |                   |                         |                          |
| <b>Test Site</b>                                                    | (TH01-WS)           |                  |                   |                         |                          |
| <b>Tested Date</b>                                                  | Jul. 16, 2020       |                  |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Manufacturer</b> | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Spectrum Analyzer                                                   | R&S                 | FSV40            | 101063            | Apr. 30, 2020           | Apr. 29, 2021            |
| Spectrum Analyzer                                                   | R&S                 | FSV40            | 101499            | Jan. 09, 2020           | Jan. 08, 2021            |
| Power Meter                                                         | Anritsu             | ML2495A          | 1241002           | Oct. 23, 2019           | Oct. 22, 2020            |
| Power Sensor                                                        | Anritsu             | MA2411B          | 1207366           | Oct. 23, 2019           | Oct. 22, 2020            |
| DC POWER SOURCE                                                     | GW INSTEK           | GPC-6030D        | GES855395         | Oct. 29, 2019           | Oct. 28, 2020            |
| AC POWER SOURCE                                                     | APC                 | AFC-500W         | F312060012        | Dec. 02, 2019           | Dec. 01, 2020            |
| Measurement Software                                                | Sporton             | Sporton_1        | 1.3.30            | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                     |                  |                   |                         |                          |

## 1.5 Test Standards

47 CFR FCC Part 15.247  
ANSI C63.10-2013

## 1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

## 1.7 Deviation from Test Standard and Measurement Procedure

None

## 1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ( $k=2$ ))

| Measurement Uncertainty        |                 |
|--------------------------------|-----------------|
| Parameters                     | Uncertainty     |
| Bandwidth                      | $\pm 34.130$ Hz |
| Conducted power                | $\pm 0.808$ dB  |
| Power density                  | $\pm 0.583$ dB  |
| Conducted emission             | $\pm 2.715$ dB  |
| AC conducted emission          | $\pm 2.92$ dB   |
| Radiated emission $\leq 1$ GHz | $\pm 3.41$ dB   |
| Radiated emission $> 1$ GHz    | $\pm 4.59$ dB   |

## 2 Test Configuration

### 2.1 Testing Condition

|                             |                                                                                         |
|-----------------------------|-----------------------------------------------------------------------------------------|
| <b>Test Laboratory</b>      | International Certification Corp.                                                       |
| <b>Test Site</b>            | CO01-WS, 03CH01-WS, TH01-WS                                                             |
| <b>Address of Test Site</b> | No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C. |

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

### 2.2 The Worst Test Modes and Channel Details

| Test item                                                                                                                                                                                                                    | Test Frequency (MHz) | Channel Bandwidth (kHz) | Modulation / SF |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------|-----------------|
| Conducted Emissions<br>Radiated Emissions $\leq 1$ GHz<br>Radiated Emissions $> 1$ GHz<br>Maximum Output Power<br>6dB Bandwidth<br>Power Spectral Density                                                                    | 923.3 / 927.5        | 500                     | LORA / 12       |
| <b>NOTE:</b> The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The <b>Z-plane</b> results were found as the worst case and were shown in this report. |                      |                         |                 |

### 3 Transmitter Test Results

#### 3.1 Conducted Emissions

##### 3.1.1 Limit of Conducted Emissions

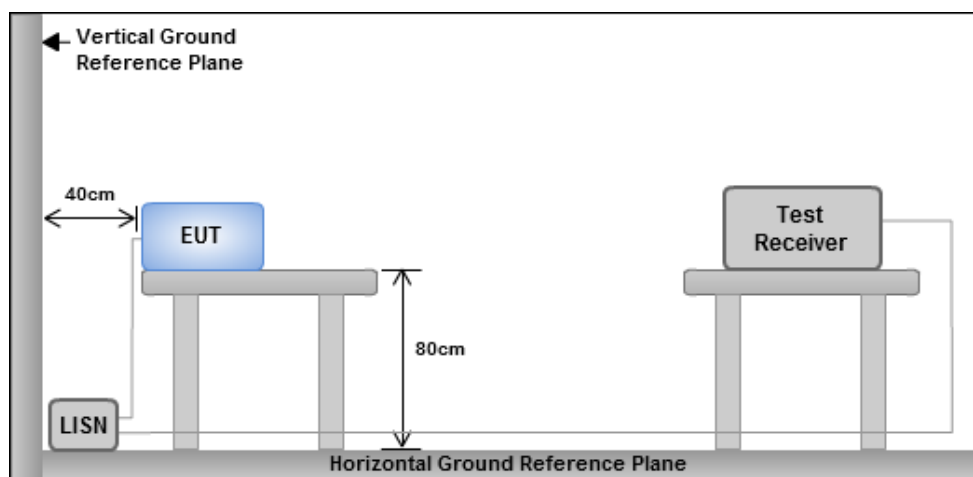
| Conducted Emissions Limit |            |           |
|---------------------------|------------|-----------|
| Frequency Emission (MHz)  | Quasi-Peak | Average   |
| 0.15-0.5                  | 66 - 56 *  | 56 - 46 * |
| 0.5-5                     | 56         | 46        |
| 5-30                      | 60         | 50        |

Note 1: \* Decreases with the logarithm of the frequency.

##### 3.1.2 Test Procedures

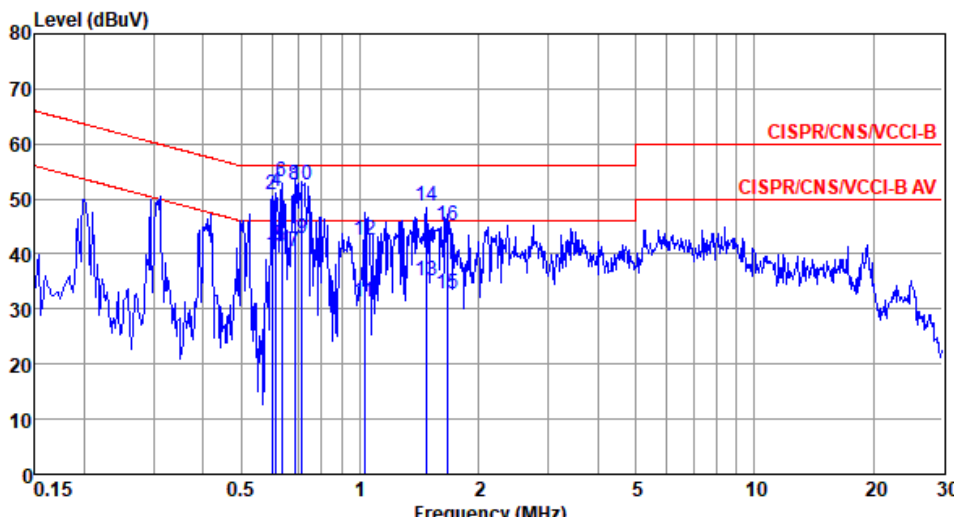
1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50  $\Omega$  LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

##### 3.1.3 Test Setup



- Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

### 3.1.4 Test Result of Conducted Emissions

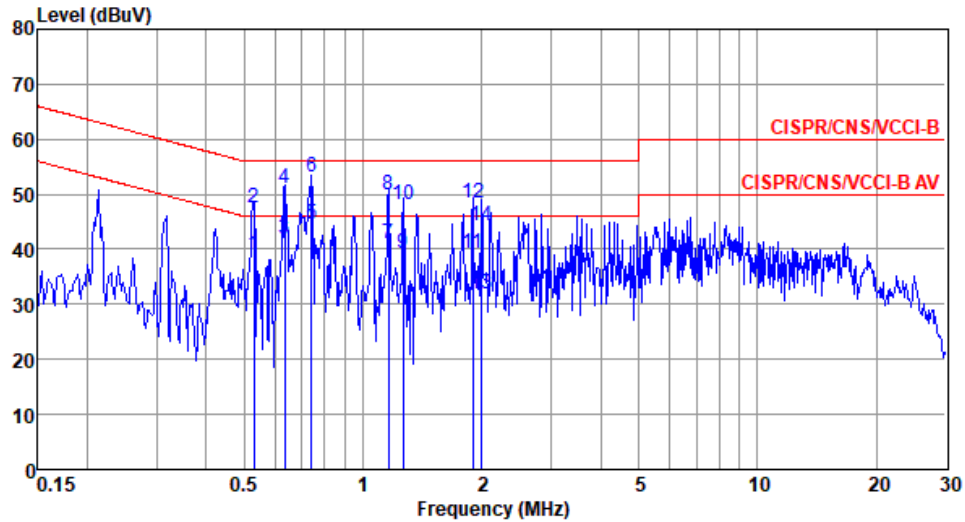
| Modulation / SF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Lora / 12   | Test Freq. (MHz) | 923.3                 |                     |                       |                      |                       |                     |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|-----------------------|---------------------|-----------------------|----------------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|--------|---|-------|-------|-------|-------|-------|------|------|---------|---|-------|-------|-------|-------|-------|------|------|----|---|-------|-------|-------|-------|-------|------|------|---------|---|-------|-------|-------|-------|-------|------|------|----|---|-------|-------|-------|-------|-------|------|------|---------|----|-------|-------|-------|-------|-------|------|------|----|---|-------|-------|-------|-------|-------|------|------|---------|---|-------|-------|-------|-------|-------|------|------|----|---|-------|-------|-------|-------|-------|------|------|---------|----|-------|-------|-------|-------|-------|------|------|----|----|-------|-------|-------|--------|-------|------|------|---------|----|-------|-------|-------|--------|-------|------|------|----|----|-------|-------|-------|--------|-------|------|------|---------|----|-------|-------|-------|-------|-------|------|------|----|----|-------|-------|-------|--------|-------|------|------|---------|----|-------|-------|-------|--------|-------|------|------|----|
| Power Phase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Line        |                  |                       |                     |                       |                      |                       |                     |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| Test by : Alex Tsai      Temperature: 25°C      Humidity: 67%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                  |                       |                     |                       |                      |                       |                     |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| <div><div><div>Level (dBUV)</div><div></div></div><table><tr><th></th><th>Freq<br/>MHz</th><th>Level<br/>dBUV</th><th>Limit<br/>Line<br/>dBUV</th><th>Over<br/>Limit<br/>dB</th><th>Read<br/>Level<br/>dBUV</th><th>LISN<br/>factor<br/>dB</th><th>cable<br/>loss<br/>dB</th><th>Remark</th></tr><tr><td>1</td><td>0.598</td><td>39.84</td><td>46.00</td><td>-6.16</td><td>29.83</td><td>9.63</td><td>0.10</td><td>Average</td></tr><tr><td>2</td><td>0.598</td><td>50.83</td><td>56.00</td><td>-5.17</td><td>40.82</td><td>9.63</td><td>0.10</td><td>QP</td></tr><tr><td>3</td><td>0.614</td><td>41.58</td><td>46.00</td><td>-4.42</td><td>31.57</td><td>9.63</td><td>0.10</td><td>Average</td></tr><tr><td>4</td><td>0.614</td><td>51.43</td><td>56.00</td><td>-4.57</td><td>41.42</td><td>9.63</td><td>0.10</td><td>QP</td></tr><tr><td>5</td><td>0.634</td><td>41.46</td><td>46.00</td><td>-4.54</td><td>31.44</td><td>9.63</td><td>0.10</td><td>Average</td></tr><tr><td>6*</td><td>0.634</td><td>53.02</td><td>56.00</td><td>-2.98</td><td>43.00</td><td>9.63</td><td>0.10</td><td>QP</td></tr><tr><td>7</td><td>0.683</td><td>40.32</td><td>46.00</td><td>-5.68</td><td>30.30</td><td>9.63</td><td>0.10</td><td>Average</td></tr><tr><td>8</td><td>0.683</td><td>52.48</td><td>56.00</td><td>-3.52</td><td>42.46</td><td>9.63</td><td>0.10</td><td>QP</td></tr><tr><td>9</td><td>0.712</td><td>42.66</td><td>46.00</td><td>-3.34</td><td>32.63</td><td>9.63</td><td>0.11</td><td>Average</td></tr><tr><td>10</td><td>0.712</td><td>52.69</td><td>56.00</td><td>-3.31</td><td>42.66</td><td>9.63</td><td>0.11</td><td>QP</td></tr><tr><td>11</td><td>1.027</td><td>31.41</td><td>46.00</td><td>-14.59</td><td>21.34</td><td>9.63</td><td>0.12</td><td>Average</td></tr><tr><td>12</td><td>1.027</td><td>42.36</td><td>56.00</td><td>-13.64</td><td>32.29</td><td>9.63</td><td>0.12</td><td>QP</td></tr><tr><td>13</td><td>1.472</td><td>35.26</td><td>46.00</td><td>-10.74</td><td>25.14</td><td>9.64</td><td>0.15</td><td>Average</td></tr><tr><td>14</td><td>1.472</td><td>48.65</td><td>56.00</td><td>-7.35</td><td>38.53</td><td>9.64</td><td>0.15</td><td>QP</td></tr><tr><td>15</td><td>1.671</td><td>32.84</td><td>46.00</td><td>-13.16</td><td>22.71</td><td>9.64</td><td>0.16</td><td>Average</td></tr><tr><td>16</td><td>1.671</td><td>45.16</td><td>56.00</td><td>-10.84</td><td>35.03</td><td>9.64</td><td>0.16</td><td>QP</td></tr></table></div> |             |                  |                       |                     | Freq<br>MHz           | Level<br>dBUV        | Limit<br>Line<br>dBUV | Over<br>Limit<br>dB | Read<br>Level<br>dBUV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark | 1 | 0.598 | 39.84 | 46.00 | -6.16 | 29.83 | 9.63 | 0.10 | Average | 2 | 0.598 | 50.83 | 56.00 | -5.17 | 40.82 | 9.63 | 0.10 | QP | 3 | 0.614 | 41.58 | 46.00 | -4.42 | 31.57 | 9.63 | 0.10 | Average | 4 | 0.614 | 51.43 | 56.00 | -4.57 | 41.42 | 9.63 | 0.10 | QP | 5 | 0.634 | 41.46 | 46.00 | -4.54 | 31.44 | 9.63 | 0.10 | Average | 6* | 0.634 | 53.02 | 56.00 | -2.98 | 43.00 | 9.63 | 0.10 | QP | 7 | 0.683 | 40.32 | 46.00 | -5.68 | 30.30 | 9.63 | 0.10 | Average | 8 | 0.683 | 52.48 | 56.00 | -3.52 | 42.46 | 9.63 | 0.10 | QP | 9 | 0.712 | 42.66 | 46.00 | -3.34 | 32.63 | 9.63 | 0.11 | Average | 10 | 0.712 | 52.69 | 56.00 | -3.31 | 42.66 | 9.63 | 0.11 | QP | 11 | 1.027 | 31.41 | 46.00 | -14.59 | 21.34 | 9.63 | 0.12 | Average | 12 | 1.027 | 42.36 | 56.00 | -13.64 | 32.29 | 9.63 | 0.12 | QP | 13 | 1.472 | 35.26 | 46.00 | -10.74 | 25.14 | 9.64 | 0.15 | Average | 14 | 1.472 | 48.65 | 56.00 | -7.35 | 38.53 | 9.64 | 0.15 | QP | 15 | 1.671 | 32.84 | 46.00 | -13.16 | 22.71 | 9.64 | 0.16 | Average | 16 | 1.671 | 45.16 | 56.00 | -10.84 | 35.03 | 9.64 | 0.16 | QP |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Freq<br>MHz | Level<br>dBUV    | Limit<br>Line<br>dBUV | Over<br>Limit<br>dB | Read<br>Level<br>dBUV | LISN<br>factor<br>dB | cable<br>loss<br>dB   | Remark              |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.598       | 39.84            | 46.00                 | -6.16               | 29.83                 | 9.63                 | 0.10                  | Average             |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.598       | 50.83            | 56.00                 | -5.17               | 40.82                 | 9.63                 | 0.10                  | QP                  |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.614       | 41.58            | 46.00                 | -4.42               | 31.57                 | 9.63                 | 0.10                  | Average             |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.614       | 51.43            | 56.00                 | -4.57               | 41.42                 | 9.63                 | 0.10                  | QP                  |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.634       | 41.46            | 46.00                 | -4.54               | 31.44                 | 9.63                 | 0.10                  | Average             |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 6*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.634       | 53.02            | 56.00                 | -2.98               | 43.00                 | 9.63                 | 0.10                  | QP                  |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.683       | 40.32            | 46.00                 | -5.68               | 30.30                 | 9.63                 | 0.10                  | Average             |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.683       | 52.48            | 56.00                 | -3.52               | 42.46                 | 9.63                 | 0.10                  | QP                  |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.712       | 42.66            | 46.00                 | -3.34               | 32.63                 | 9.63                 | 0.11                  | Average             |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.712       | 52.69            | 56.00                 | -3.31               | 42.66                 | 9.63                 | 0.11                  | QP                  |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.027       | 31.41            | 46.00                 | -14.59              | 21.34                 | 9.63                 | 0.12                  | Average             |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.027       | 42.36            | 56.00                 | -13.64              | 32.29                 | 9.63                 | 0.12                  | QP                  |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.472       | 35.26            | 46.00                 | -10.74              | 25.14                 | 9.64                 | 0.15                  | Average             |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.472       | 48.65            | 56.00                 | -7.35               | 38.53                 | 9.64                 | 0.15                  | QP                  |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.671       | 32.84            | 46.00                 | -13.16              | 22.71                 | 9.64                 | 0.16                  | Average             |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.671       | 45.16            | 56.00                 | -10.84              | 35.03                 | 9.64                 | 0.16                  | QP                  |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).<br>2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                  |                       |                     |                       |                      |                       |                     |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |

|                 |           |                  |       |
|-----------------|-----------|------------------|-------|
| Modulation / SF | Lora / 12 | Test Freq. (MHz) | 923.3 |
| Power Phase     | Neutral   |                  |       |

Test by : Alex Tsai

Temperature: 25°C

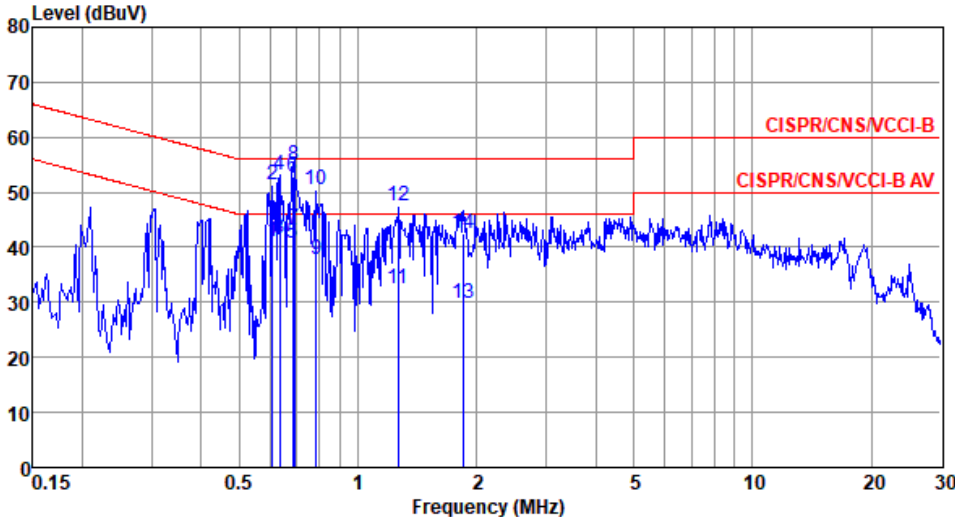
Humidity: 67%



|    | Freq<br>MHz | Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark  |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1  | 0.529       | 39.07         | 46.00                 | -6.93               | 29.15                 | 9.65                 | 0.09                | Average |
| 2  | 0.529       | 47.52         | 56.00                 | -8.48               | 37.60                 | 9.65                 | 0.09                | QP      |
| 3  | 0.634       | 41.94         | 46.00                 | -4.06               | 32.00                 | 9.65                 | 0.10                | Average |
| 4  | 0.634       | 51.00         | 56.00                 | -5.00               | 41.06                 | 9.65                 | 0.10                | QP      |
| 5* | 0.739       | 44.63         | 46.00                 | -1.37               | 34.68                 | 9.65                 | 0.11                | Average |
| 6  | 0.739       | 53.22         | 56.00                 | -2.78               | 43.27                 | 9.65                 | 0.11                | QP      |
| 7  | 1.160       | 40.99         | 46.00                 | -5.01               | 31.00                 | 9.65                 | 0.13                | Average |
| 8  | 1.160       | 50.00         | 56.00                 | -6.00               | 40.01                 | 9.65                 | 0.13                | QP      |
| 9  | 1.262       | 39.16         | 46.00                 | -6.84               | 29.15                 | 9.65                 | 0.14                | Average |
| 10 | 1.262       | 48.12         | 56.00                 | -7.88               | 38.11                 | 9.65                 | 0.14                | QP      |
| 11 | 1.898       | 39.38         | 46.00                 | -6.62               | 29.28                 | 9.66                 | 0.18                | Average |
| 12 | 1.898       | 48.38         | 56.00                 | -7.62               | 38.28                 | 9.66                 | 0.18                | QP      |
| 13 | 2.001       | 31.81         | 46.00                 | -14.19              | 21.71                 | 9.66                 | 0.18                | Average |
| 14 | 2.001       | 44.14         | 56.00                 | -11.86              | 34.04                 | 9.66                 | 0.18                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).

2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

| Modulation / SF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Lora / 12   | Test Freq. (MHz) | 927.5                 |                     |                       |                      |                       |                     |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|-----------------------|---------------------|-----------------------|----------------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|--------|---|-------|-------|-------|-------|-------|------|------|---------|---|-------|-------|-------|-------|-------|------|------|----|---|-------|-------|-------|-------|-------|------|------|---------|---|-------|-------|-------|-------|-------|------|------|----|---|-------|-------|-------|-------|-------|------|------|---------|---|-------|-------|-------|-------|-------|------|------|----|---|-------|-------|-------|-------|-------|------|------|---------|----|-------|-------|-------|-------|-------|------|------|----|---|-------|-------|-------|-------|-------|------|------|---------|----|-------|-------|-------|-------|-------|------|------|----|----|-------|-------|-------|--------|-------|------|------|---------|----|-------|-------|-------|-------|-------|------|------|----|----|-------|-------|-------|--------|-------|------|------|---------|----|-------|-------|-------|--------|-------|------|------|----|
| Power Phase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Line        |                  |                       |                     |                       |                      |                       |                     |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| Test by : Alex Tsai      Temperature: 25°C      Humidity: 67%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                  |                       |                     |                       |                      |                       |                     |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                  |                       |                     |                       |                      |                       |                     |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| <table><tr><th></th><th>Freq<br/>MHz</th><th>Level<br/>dBuV</th><th>Limit<br/>Line<br/>dBuV</th><th>Over<br/>Limit<br/>dB</th><th>Read<br/>Level<br/>dBuV</th><th>LISN<br/>factor<br/>dB</th><th>cable<br/>loss<br/>dB</th><th>Remark</th></tr><tr><td>1</td><td>0.608</td><td>41.18</td><td>46.00</td><td>-4.82</td><td>31.17</td><td>9.63</td><td>0.10</td><td>Average</td></tr><tr><td>2</td><td>0.608</td><td>51.37</td><td>56.00</td><td>-4.63</td><td>41.36</td><td>9.63</td><td>0.10</td><td>QP</td></tr><tr><td>3</td><td>0.634</td><td>41.56</td><td>46.00</td><td>-4.44</td><td>31.54</td><td>9.63</td><td>0.10</td><td>Average</td></tr><tr><td>4</td><td>0.634</td><td>53.23</td><td>56.00</td><td>-2.77</td><td>43.21</td><td>9.63</td><td>0.10</td><td>QP</td></tr><tr><td>5</td><td>0.683</td><td>40.74</td><td>46.00</td><td>-5.26</td><td>30.72</td><td>9.63</td><td>0.10</td><td>Average</td></tr><tr><td>6</td><td>0.683</td><td>52.81</td><td>56.00</td><td>-3.19</td><td>42.79</td><td>9.63</td><td>0.10</td><td>QP</td></tr><tr><td>7</td><td>0.690</td><td>43.28</td><td>46.00</td><td>-2.72</td><td>33.26</td><td>9.63</td><td>0.10</td><td>Average</td></tr><tr><td>8*</td><td>0.690</td><td>54.86</td><td>56.00</td><td>-1.14</td><td>44.84</td><td>9.63</td><td>0.10</td><td>QP</td></tr><tr><td>9</td><td>0.783</td><td>37.83</td><td>46.00</td><td>-8.17</td><td>27.79</td><td>9.63</td><td>0.11</td><td>Average</td></tr><tr><td>10</td><td>0.783</td><td>50.60</td><td>56.00</td><td>-5.40</td><td>40.56</td><td>9.63</td><td>0.11</td><td>QP</td></tr><tr><td>11</td><td>1.262</td><td>32.38</td><td>46.00</td><td>-13.62</td><td>22.28</td><td>9.63</td><td>0.14</td><td>Average</td></tr><tr><td>12</td><td>1.262</td><td>47.49</td><td>56.00</td><td>-8.51</td><td>37.39</td><td>9.63</td><td>0.14</td><td>QP</td></tr><tr><td>13</td><td>1.848</td><td>29.82</td><td>46.00</td><td>-16.18</td><td>19.67</td><td>9.64</td><td>0.17</td><td>Average</td></tr><tr><td>14</td><td>1.848</td><td>42.63</td><td>56.00</td><td>-13.37</td><td>32.48</td><td>9.64</td><td>0.17</td><td>QP</td></tr></table> |             |                  |                       |                     | Freq<br>MHz           | Level<br>dBuV        | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark | 1 | 0.608 | 41.18 | 46.00 | -4.82 | 31.17 | 9.63 | 0.10 | Average | 2 | 0.608 | 51.37 | 56.00 | -4.63 | 41.36 | 9.63 | 0.10 | QP | 3 | 0.634 | 41.56 | 46.00 | -4.44 | 31.54 | 9.63 | 0.10 | Average | 4 | 0.634 | 53.23 | 56.00 | -2.77 | 43.21 | 9.63 | 0.10 | QP | 5 | 0.683 | 40.74 | 46.00 | -5.26 | 30.72 | 9.63 | 0.10 | Average | 6 | 0.683 | 52.81 | 56.00 | -3.19 | 42.79 | 9.63 | 0.10 | QP | 7 | 0.690 | 43.28 | 46.00 | -2.72 | 33.26 | 9.63 | 0.10 | Average | 8* | 0.690 | 54.86 | 56.00 | -1.14 | 44.84 | 9.63 | 0.10 | QP | 9 | 0.783 | 37.83 | 46.00 | -8.17 | 27.79 | 9.63 | 0.11 | Average | 10 | 0.783 | 50.60 | 56.00 | -5.40 | 40.56 | 9.63 | 0.11 | QP | 11 | 1.262 | 32.38 | 46.00 | -13.62 | 22.28 | 9.63 | 0.14 | Average | 12 | 1.262 | 47.49 | 56.00 | -8.51 | 37.39 | 9.63 | 0.14 | QP | 13 | 1.848 | 29.82 | 46.00 | -16.18 | 19.67 | 9.64 | 0.17 | Average | 14 | 1.848 | 42.63 | 56.00 | -13.37 | 32.48 | 9.64 | 0.17 | QP |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Freq<br>MHz | Level<br>dBuV    | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB   | Remark              |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.608       | 41.18            | 46.00                 | -4.82               | 31.17                 | 9.63                 | 0.10                  | Average             |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.608       | 51.37            | 56.00                 | -4.63               | 41.36                 | 9.63                 | 0.10                  | QP                  |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.634       | 41.56            | 46.00                 | -4.44               | 31.54                 | 9.63                 | 0.10                  | Average             |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.634       | 53.23            | 56.00                 | -2.77               | 43.21                 | 9.63                 | 0.10                  | QP                  |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.683       | 40.74            | 46.00                 | -5.26               | 30.72                 | 9.63                 | 0.10                  | Average             |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.683       | 52.81            | 56.00                 | -3.19               | 42.79                 | 9.63                 | 0.10                  | QP                  |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.690       | 43.28            | 46.00                 | -2.72               | 33.26                 | 9.63                 | 0.10                  | Average             |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 8*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.690       | 54.86            | 56.00                 | -1.14               | 44.84                 | 9.63                 | 0.10                  | QP                  |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.783       | 37.83            | 46.00                 | -8.17               | 27.79                 | 9.63                 | 0.11                  | Average             |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.783       | 50.60            | 56.00                 | -5.40               | 40.56                 | 9.63                 | 0.11                  | QP                  |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.262       | 32.38            | 46.00                 | -13.62              | 22.28                 | 9.63                 | 0.14                  | Average             |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.262       | 47.49            | 56.00                 | -8.51               | 37.39                 | 9.63                 | 0.14                  | QP                  |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.848       | 29.82            | 46.00                 | -16.18              | 19.67                 | 9.64                 | 0.17                  | Average             |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.848       | 42.63            | 56.00                 | -13.37              | 32.48                 | 9.64                 | 0.17                  | QP                  |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |
| Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).<br>2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                  |                       |                     |                       |                      |                       |                     |                       |                      |                     |        |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |        |       |      |      |    |

| Modulation / SF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Lora / 12   | Test Freq. (MHz) | 927.5                 |                     |                       |                      |                       |                     |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|-----------------------|---------------------|-----------------------|----------------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|--------|---|-------|-------|-------|--------|-------|------|------|---------|---|-------|-------|-------|--------|-------|------|------|----|---|-------|-------|-------|-------|-------|------|------|---------|---|-------|-------|-------|-------|-------|------|------|----|---|-------|-------|-------|-------|-------|------|------|---------|----|-------|-------|-------|-------|-------|------|------|----|---|-------|-------|-------|-------|-------|------|------|---------|---|-------|-------|-------|-------|-------|------|------|----|---|-------|-------|-------|-------|-------|------|------|---------|----|-------|-------|-------|-------|-------|------|------|----|----|-------|-------|-------|-------|-------|------|------|---------|----|-------|-------|-------|-------|-------|------|------|----|----|-------|-------|-------|--------|-------|------|------|---------|----|-------|-------|-------|-------|-------|------|------|----|
| Power Phase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Neutral     |                  |                       |                     |                       |                      |                       |                     |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| Test by : Alex Tsai      Temperature: 25°C      Humidity: 67%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                  |                       |                     |                       |                      |                       |                     |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| <div><div><div>Level (dBuV)</div><div></div><div>Frequency (MHz)</div></div><table><thead><tr><th></th><th>Freq<br/>MHz</th><th>Level<br/>dBuV</th><th>Limit<br/>Line<br/>dBuV</th><th>Over<br/>Limit<br/>dB</th><th>Read<br/>Level<br/>dBuV</th><th>LISN<br/>factor<br/>dB</th><th>cable<br/>loss<br/>dB</th><th>Remark</th></tr></thead><tbody><tr><td>1</td><td>0.312</td><td>38.42</td><td>49.93</td><td>-11.51</td><td>28.54</td><td>9.65</td><td>0.07</td><td>Average</td></tr><tr><td>2</td><td>0.312</td><td>49.38</td><td>59.93</td><td>-10.55</td><td>39.50</td><td>9.65</td><td>0.07</td><td>QP</td></tr><tr><td>3</td><td>0.611</td><td>41.79</td><td>46.00</td><td>-4.21</td><td>31.86</td><td>9.65</td><td>0.10</td><td>Average</td></tr><tr><td>4</td><td>0.611</td><td>52.14</td><td>56.00</td><td>-3.86</td><td>42.21</td><td>9.65</td><td>0.10</td><td>QP</td></tr><tr><td>5</td><td>0.634</td><td>41.86</td><td>46.00</td><td>-4.14</td><td>31.92</td><td>9.65</td><td>0.10</td><td>Average</td></tr><tr><td>6*</td><td>0.634</td><td>53.76</td><td>56.00</td><td>-2.24</td><td>43.82</td><td>9.65</td><td>0.10</td><td>QP</td></tr><tr><td>7</td><td>0.683</td><td>40.82</td><td>46.00</td><td>-5.18</td><td>30.88</td><td>9.65</td><td>0.10</td><td>Average</td></tr><tr><td>8</td><td>0.683</td><td>53.23</td><td>56.00</td><td>-2.77</td><td>43.29</td><td>9.65</td><td>0.10</td><td>QP</td></tr><tr><td>9</td><td>0.720</td><td>42.81</td><td>46.00</td><td>-3.19</td><td>32.86</td><td>9.65</td><td>0.11</td><td>Average</td></tr><tr><td>10</td><td>0.720</td><td>52.28</td><td>56.00</td><td>-3.72</td><td>42.33</td><td>9.65</td><td>0.11</td><td>QP</td></tr><tr><td>11</td><td>0.783</td><td>38.37</td><td>46.00</td><td>-7.63</td><td>28.42</td><td>9.65</td><td>0.11</td><td>Average</td></tr><tr><td>12</td><td>0.783</td><td>50.96</td><td>56.00</td><td>-5.04</td><td>41.01</td><td>9.65</td><td>0.11</td><td>QP</td></tr><tr><td>13</td><td>1.374</td><td>35.15</td><td>46.00</td><td>-10.85</td><td>25.12</td><td>9.65</td><td>0.15</td><td>Average</td></tr><tr><td>14</td><td>1.374</td><td>49.22</td><td>56.00</td><td>-6.78</td><td>39.19</td><td>9.65</td><td>0.15</td><td>QP</td></tr></tbody></table></div> |             |                  |                       |                     | Freq<br>MHz           | Level<br>dBuV        | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark | 1 | 0.312 | 38.42 | 49.93 | -11.51 | 28.54 | 9.65 | 0.07 | Average | 2 | 0.312 | 49.38 | 59.93 | -10.55 | 39.50 | 9.65 | 0.07 | QP | 3 | 0.611 | 41.79 | 46.00 | -4.21 | 31.86 | 9.65 | 0.10 | Average | 4 | 0.611 | 52.14 | 56.00 | -3.86 | 42.21 | 9.65 | 0.10 | QP | 5 | 0.634 | 41.86 | 46.00 | -4.14 | 31.92 | 9.65 | 0.10 | Average | 6* | 0.634 | 53.76 | 56.00 | -2.24 | 43.82 | 9.65 | 0.10 | QP | 7 | 0.683 | 40.82 | 46.00 | -5.18 | 30.88 | 9.65 | 0.10 | Average | 8 | 0.683 | 53.23 | 56.00 | -2.77 | 43.29 | 9.65 | 0.10 | QP | 9 | 0.720 | 42.81 | 46.00 | -3.19 | 32.86 | 9.65 | 0.11 | Average | 10 | 0.720 | 52.28 | 56.00 | -3.72 | 42.33 | 9.65 | 0.11 | QP | 11 | 0.783 | 38.37 | 46.00 | -7.63 | 28.42 | 9.65 | 0.11 | Average | 12 | 0.783 | 50.96 | 56.00 | -5.04 | 41.01 | 9.65 | 0.11 | QP | 13 | 1.374 | 35.15 | 46.00 | -10.85 | 25.12 | 9.65 | 0.15 | Average | 14 | 1.374 | 49.22 | 56.00 | -6.78 | 39.19 | 9.65 | 0.15 | QP |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Freq<br>MHz | Level<br>dBuV    | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB   | Remark              |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.312       | 38.42            | 49.93                 | -11.51              | 28.54                 | 9.65                 | 0.07                  | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.312       | 49.38            | 59.93                 | -10.55              | 39.50                 | 9.65                 | 0.07                  | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.611       | 41.79            | 46.00                 | -4.21               | 31.86                 | 9.65                 | 0.10                  | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.611       | 52.14            | 56.00                 | -3.86               | 42.21                 | 9.65                 | 0.10                  | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.634       | 41.86            | 46.00                 | -4.14               | 31.92                 | 9.65                 | 0.10                  | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| 6*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.634       | 53.76            | 56.00                 | -2.24               | 43.82                 | 9.65                 | 0.10                  | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.683       | 40.82            | 46.00                 | -5.18               | 30.88                 | 9.65                 | 0.10                  | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.683       | 53.23            | 56.00                 | -2.77               | 43.29                 | 9.65                 | 0.10                  | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.720       | 42.81            | 46.00                 | -3.19               | 32.86                 | 9.65                 | 0.11                  | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.720       | 52.28            | 56.00                 | -3.72               | 42.33                 | 9.65                 | 0.11                  | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.783       | 38.37            | 46.00                 | -7.63               | 28.42                 | 9.65                 | 0.11                  | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.783       | 50.96            | 56.00                 | -5.04               | 41.01                 | 9.65                 | 0.11                  | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.374       | 35.15            | 46.00                 | -10.85              | 25.12                 | 9.65                 | 0.15                  | Average             |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.374       | 49.22            | 56.00                 | -6.78               | 39.19                 | 9.65                 | 0.15                  | QP                  |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |
| Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).<br>2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                  |                       |                     |                       |                      |                       |                     |                       |                      |                     |        |   |       |       |       |        |       |      |      |         |   |       |       |       |        |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |   |       |       |       |       |       |      |      |    |   |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |       |       |      |      |         |    |       |       |       |       |       |      |      |    |    |       |       |       |        |       |      |      |         |    |       |       |       |       |       |      |      |    |

## 3.2 6dB and Occupied Bandwidth

### 3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

### 3.2.2 Test Procedures

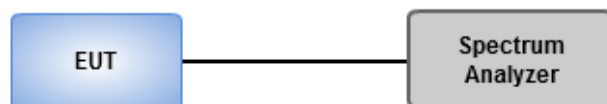
#### 6dB Bandwidth

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

#### Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 10kHz, Video bandwidth = 30kHz.
2. Detector = Sample, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

### 3.2.3 Test Setup

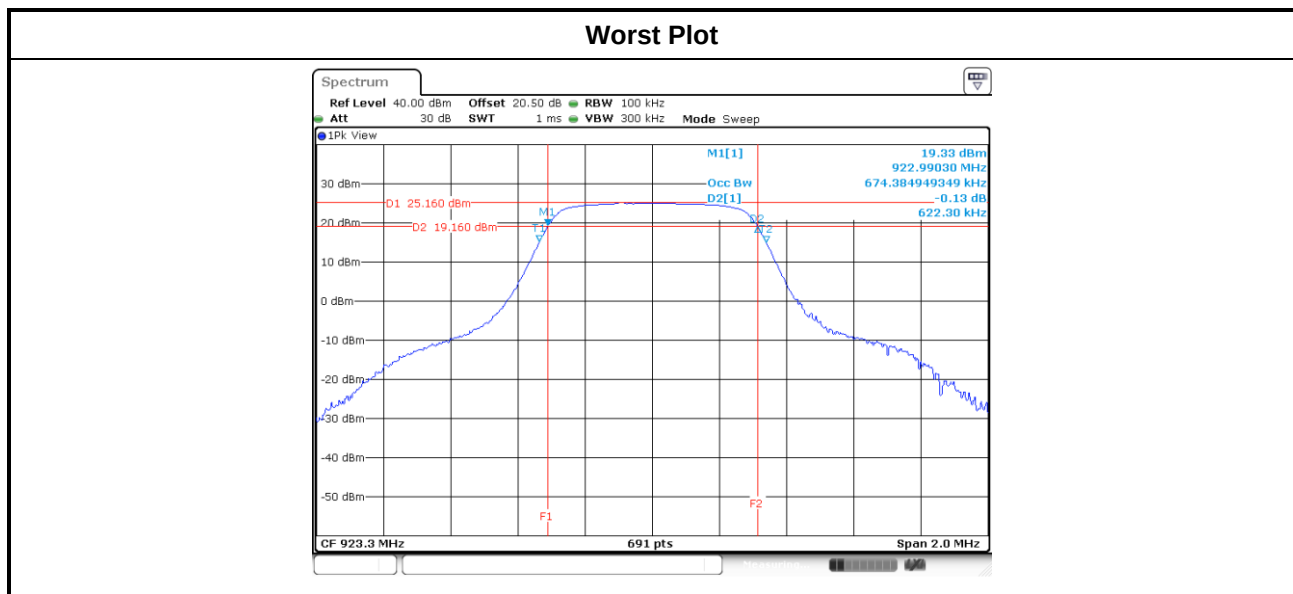




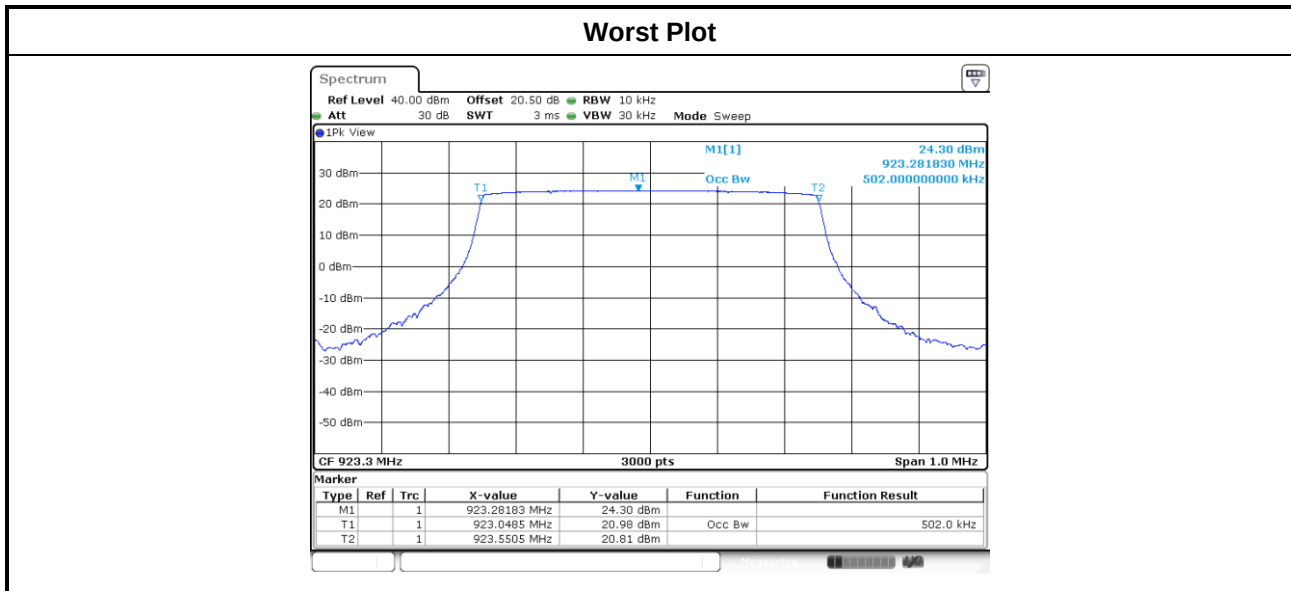
### 3.2.4 Test Result of 6dB and Occupied Bandwidth

|                   |            |           |         |
|-------------------|------------|-----------|---------|
| Ambient Condition | 23°C / 63% | Tested By | Brad Wu |
|-------------------|------------|-----------|---------|

| Modulation / SF | Freq. (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) |
|-----------------|-------------|---------------------|-------------|
| Lora / 12       | 923.3       | 0.622               | 0.5         |
| Lora / 12       | 927.5       | 0.619               | 0.5         |



| Modulation / SF | Freq. (MHz) | 99% Occupied Bandwidth (MHz) |
|-----------------|-------------|------------------------------|
| Lora / 12       | 923.3       | 0.502                        |
| Lora / 12       | 927.5       | 0.501                        |



### 3.3 RF Output Power

#### 3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

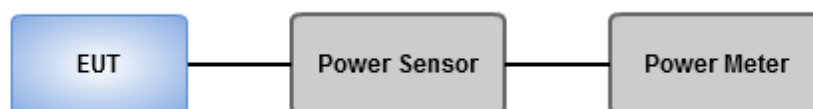
- ☒ Antenna gain  $\leq 6\text{dBi}$ , no any corresponding reduction is in output power limit.
- ☐ Antenna gain  $> 6\text{dBi}$

Transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

#### 3.3.2 Test Procedures

- ☐ Maximum Peak Conducted Output Power
  - ☐ **Spectrum analyzer**
    1. Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.
    2. Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.
    3. Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.
  - ☐ **Power meter**
    1. A broadband Peak RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.
- ☒ Maximum Conducted Output Power
  - ☒ **Power meter**
    1. A broadband Average RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

#### 3.3.3 Test Setup



### 3.3.4 Test Result of Maximum Output Power

|                   |            |           |         |
|-------------------|------------|-----------|---------|
| Ambient Condition | 23°C / 63% | Tested By | Brad Wu |
|-------------------|------------|-----------|---------|

| Modulation / SF | Freq. (MHz) | Output Power (mW) | Output Power (dBm) | Limit (dBm) |
|-----------------|-------------|-------------------|--------------------|-------------|
| Lora / 12       | 923.3       | 421.6965          | 26.25              | 30          |
| Lora / 12       | 927.5       | 384.5918          | 25.85              | 30          |

### 3.4 Power Spectral Density

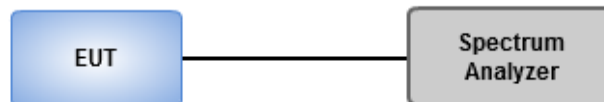
#### 3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

#### 3.4.2 Test Procedures

- ☐ Maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit.
  1. Set the RBW = 3kHz, VBW = 10kHz.
  2. Detector = Peak, Sweep time = auto couple.
  3. Trace mode = max hold, allow trace to fully stabilize.
  4. Use the peak marker function to determine the maximum amplitude level.
- ☒ Maximum (average) conducted output power was used to demonstrate compliance to the fundamental output power limit.
  1. Set the RBW = 3kHz, VBW = 10 kHz.
  2. Detector = RMS, Sweep time = auto couple.
  3. Employ trace averaging (RMS) mode over a minimum of 100 traces
  4. Use the peak marker function to determine the maximum amplitude level.

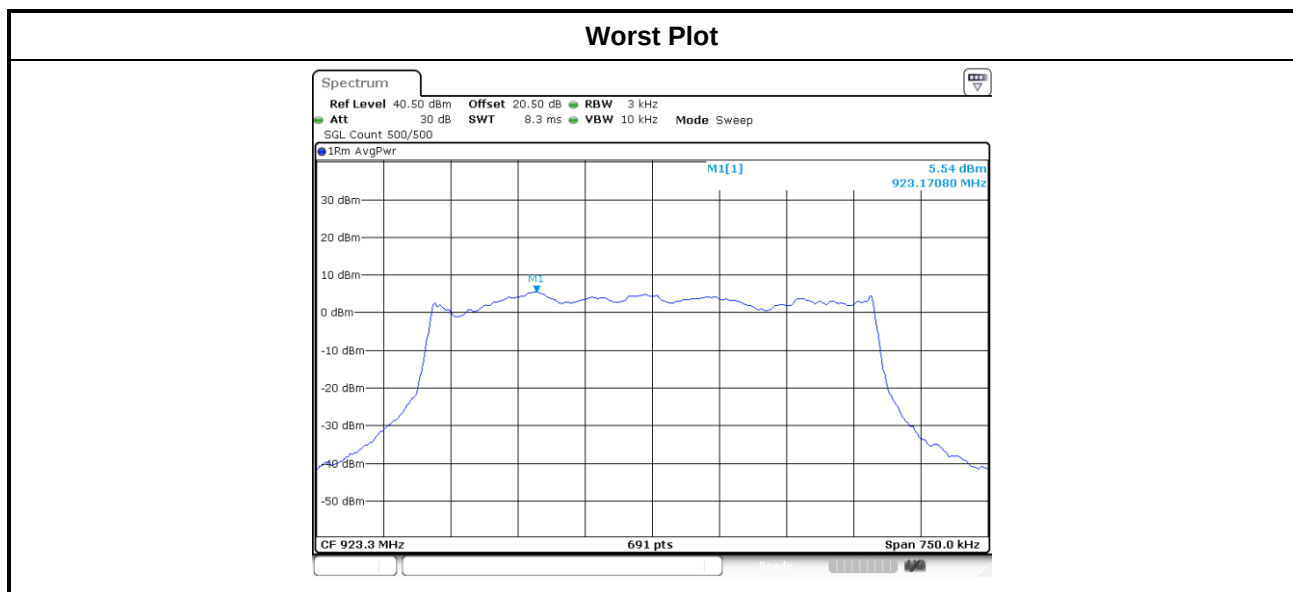
#### 3.4.3 Test Setup



### 3.4.4 Test Result of Power Spectral Density

|                   |            |           |         |
|-------------------|------------|-----------|---------|
| Ambient Condition | 23°C / 63% | Tested By | Brad Wu |
|-------------------|------------|-----------|---------|

| Modulation / SF | Freq. (MHz) | Total Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) |
|-----------------|-------------|-----------------------------------------|------------------|
| Lora / 12       | 923.3       | 5.54                                    | 8.00             |
| Lora / 12       | 927.5       | 5.49                                    | 8.00             |



### 3.5 Unwanted Emissions into Restricted Frequency Bands

#### 3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

| Restricted Band Emissions Limit |                       |                         |                      |
|---------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz)           | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490                     | 2400/F(kHz)           | 48.5 - 13.8             | 300                  |
| 0.490~1.705                     | 24000/F(kHz)          | 33.8 - 23               | 30                   |
| 1.705~30.0                      | 30                    | 29                      | 30                   |
| 30~88                           | 100                   | 40                      | 3                    |
| 88~216                          | 150                   | 43.5                    | 3                    |
| 216~960                         | 200                   | 46                      | 3                    |
| Above 960                       | 500                   | 54                      | 3                    |

**Note 1:**  
Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

**Note 2:**  
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

#### 3.5.2 Test Procedures

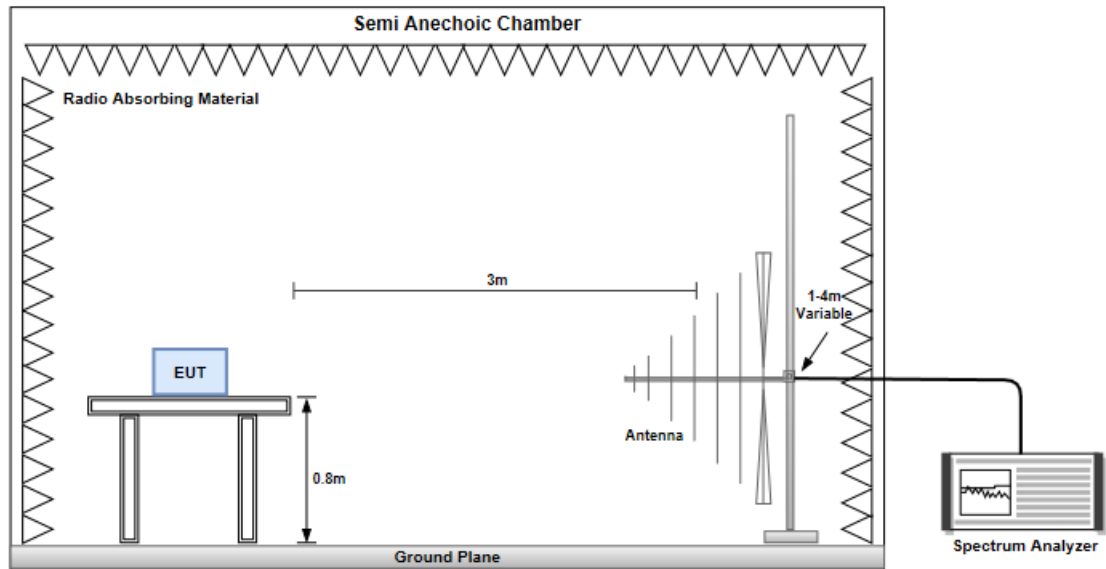
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

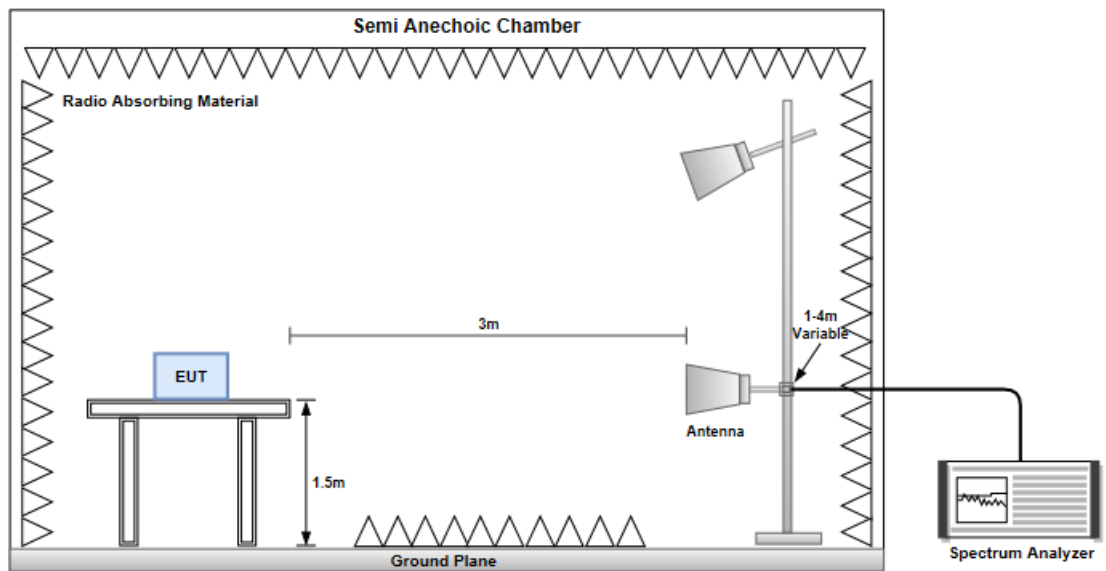
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

### 3.5.3 Test Setup

#### Radiated Emissions below 1 GHz



#### Radiated Emissions above 1 GHz



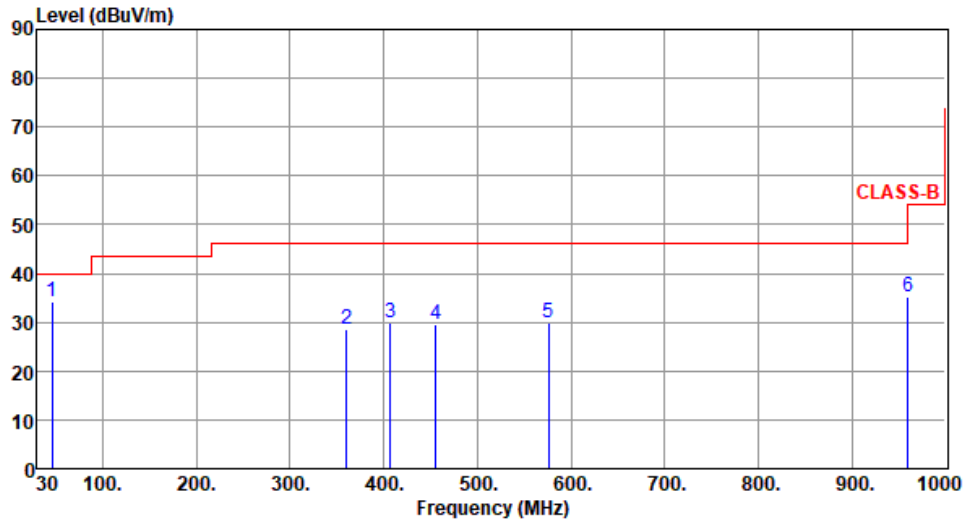


### 3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Modulation / SF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Lora / 12  | Test Freq. (MHz) | 923.3 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Test By :Akun Chung      Temperature(°C):24      Humidity(%):65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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|                 |           |                  |       |
|-----------------|-----------|------------------|-------|
| Modulation / SF | Lora / 12 | Test Freq. (MHz) | 923.3 |
| Polarization    | Vertical  |                  |       |

Test By :Akun Chung      Temperature(°C):24      Humidity(%):65



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 45.98        | 34.22                       | 40.00           | -5.78        | 42.83                 | -8.61        | Peak   | ---               | ---                  |
| 2 | 360.00       | 28.54                       | 46.00           | -17.46       | 35.86                 | -7.32        | Peak   | ---               | ---                  |
| 3 | 407.20       | 30.01                       | 46.00           | -15.99       | 35.91                 | -5.90        | Peak   | ---               | ---                  |
| 4 | 456.00       | 29.50                       | 46.00           | -16.50       | 33.86                 | -4.36        | Peak   | ---               | ---                  |
| 5 | 576.00       | 30.02                       | 46.00           | -15.98       | 32.27                 | -2.25        | Peak   | ---               | ---                  |
| 6 | 960.20       | 35.22                       | 54.00           | -18.78       | 31.18                 | 4.04         | Peak   | ---               | ---                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

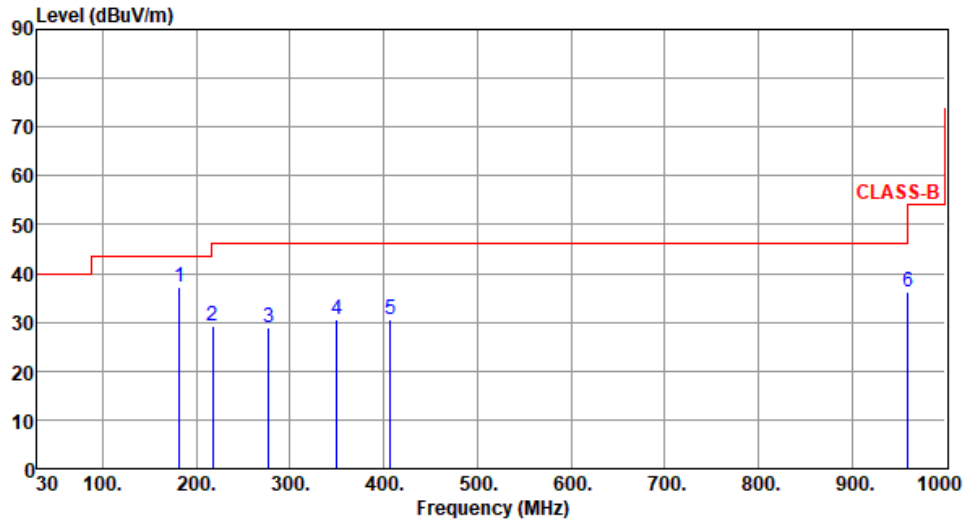
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

|                 |            |                  |       |
|-----------------|------------|------------------|-------|
| Modulation / SF | Lora / 12  | Test Freq. (MHz) | 927.5 |
| Polarization    | Horizontal |                  |       |

Test By : Akun Chung      Temperature(°C): 24      Humidity(%): 65



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 181.81       | 37.05                       | 43.50           | -6.45        | 19.47                 | 17.58        | Peak   | ---               | ---                  |
| 2 | 217.60       | 29.27                       | 46.00           | -16.73       | 41.71                 | -12.44       | Peak   | ---               | ---                  |
| 3 | 276.80       | 28.97                       | 46.00           | -17.03       | 38.27                 | -9.30        | Peak   | ---               | ---                  |
| 4 | 349.60       | 30.47                       | 46.00           | -15.53       | 38.03                 | -7.56        | Peak   | ---               | ---                  |
| 5 | 407.20       | 30.39                       | 46.00           | -15.61       | 36.29                 | -5.90        | Peak   | ---               | ---                  |
| 6 | 960.00       | 36.36                       | 46.00           | -9.64        | 32.32                 | 4.04         | Peak   | ---               | ---                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

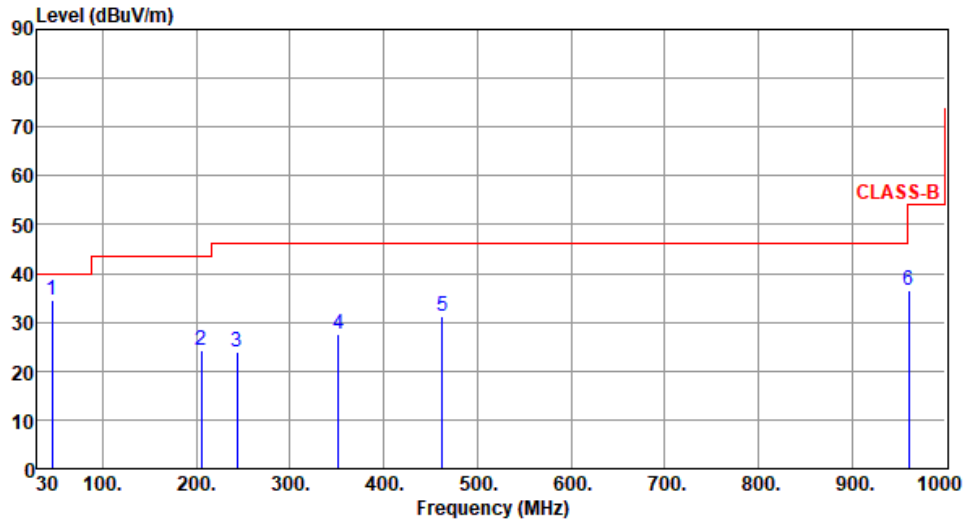
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

|                 |           |                  |       |
|-----------------|-----------|------------------|-------|
| Modulation / SF | Lora / 12 | Test Freq. (MHz) | 927.5 |
| Polarization    | Vertical  |                  |       |

Test By : Akun Chung      Temperature(°C): 24      Humidity(%): 65



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 46.32        | 34.39                       | 40.00           | -5.61        | 14.99                 | 19.40        | Peak   | ---               | ---                  |
| 2 | 205.60       | 24.19                       | 43.50           | -19.31       | 36.56                 | -12.37       | Peak   | ---               | ---                  |
| 3 | 243.20       | 23.80                       | 46.00           | -22.20       | 34.44                 | -10.64       | Peak   | ---               | ---                  |
| 4 | 352.00       | 27.61                       | 46.00           | -18.39       | 35.13                 | -7.52        | Peak   | ---               | ---                  |
| 5 | 462.40       | 31.07                       | 46.00           | -14.93       | 35.28                 | -4.21        | Peak   | ---               | ---                  |
| 6 | 960.80       | 36.45                       | 54.00           | -17.55       | 32.39                 | 4.06         | Peak   | ---               | ---                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

### 3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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## 3.6 Emissions in Non-Restricted Frequency Bands

### 3.6.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz

### 3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.6.3 Test Procedures

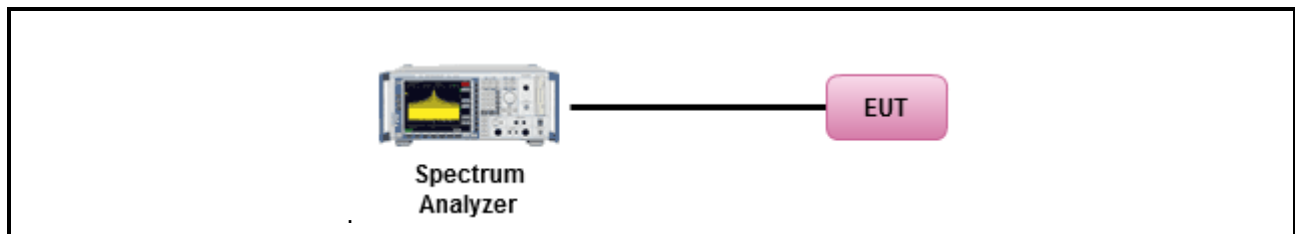
#### Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

#### Emission level measurement

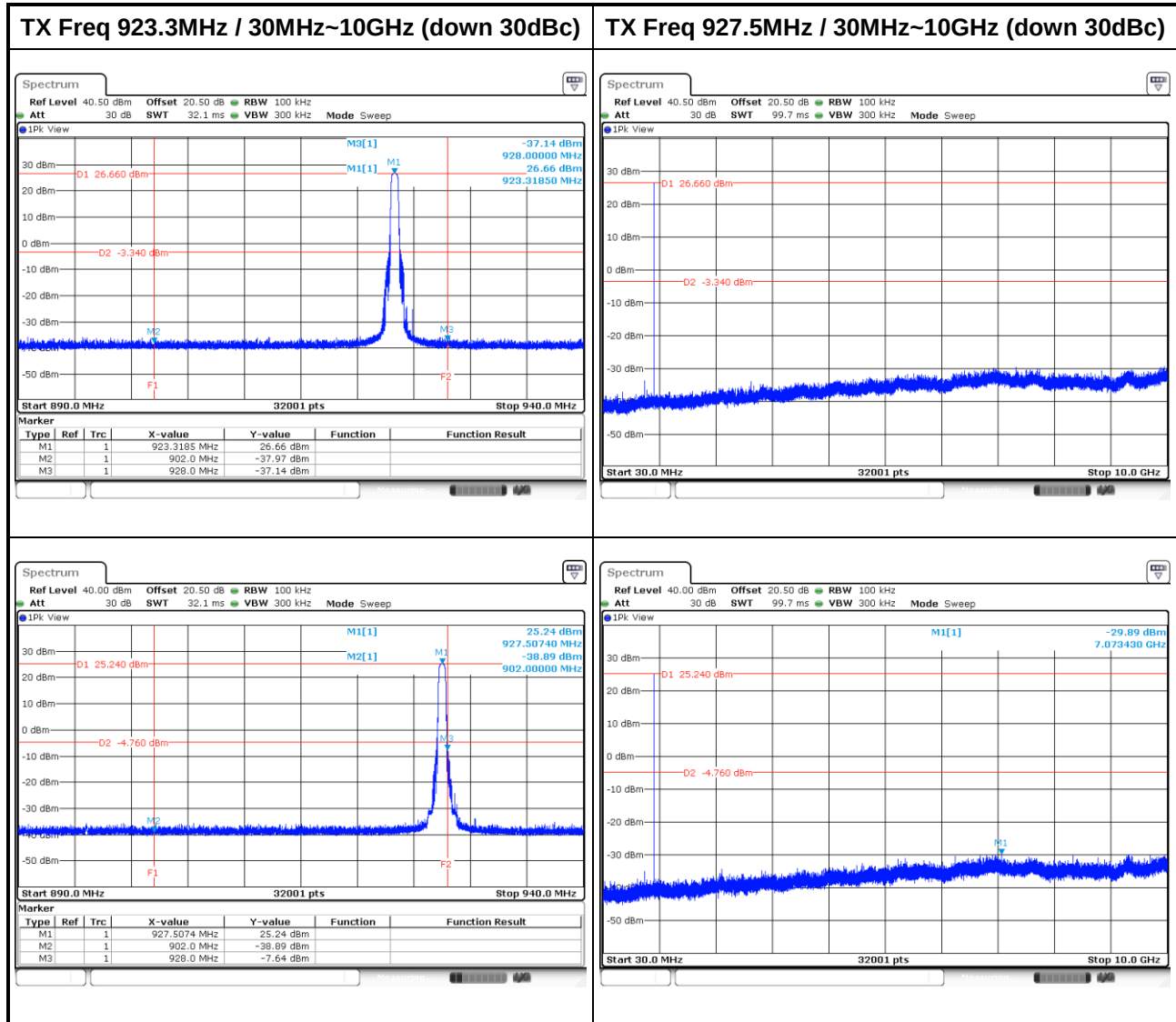
1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 10GHz
4. Use the peak marker function to determine the maximum amplitude level

### 3.6.4 Test Setup



### 3.6.5 Unwanted Emissions into Non-Restricted Frequency Bands

|                   |            |           |         |
|-------------------|------------|-----------|---------|
| Ambient Condition | 23°C / 63% | Tested By | Brad Wu |
|-------------------|------------|-----------|---------|



## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

### **Linkou**

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin  
Kou District, New Taipei City,  
Taiwan, R.O.C.

### **Kwei Shan**

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,  
Kwei Shan District, Tao Yuan City  
333, Taiwan, R.O.C.

### **Kwei Shan Site II**

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd  
St., Kwei Shan District, Tao Yuan  
City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC\_Service@icertifi.com.tw

==END==